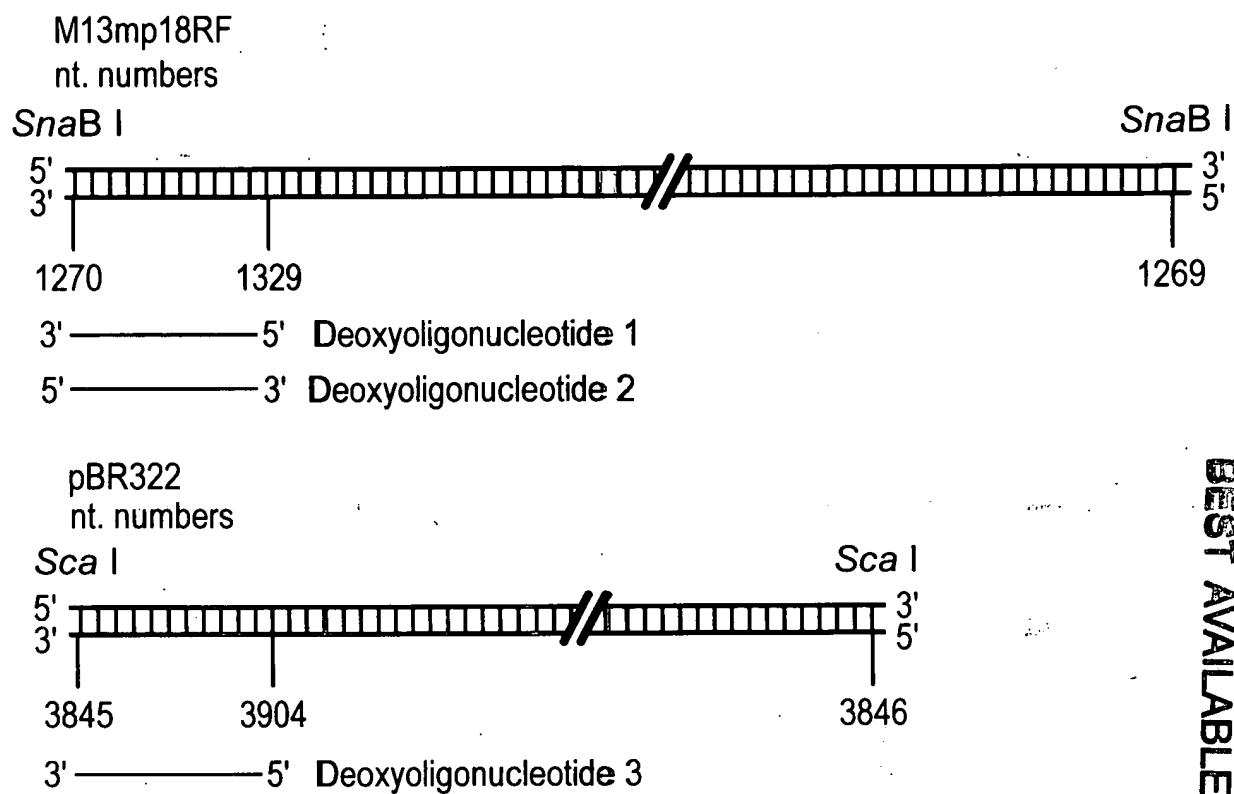


APPLN. FILING DATE: NOVEMBER 21, 2001
 TITLE: METHOD FOR DETECTING DNA
 POLYMORPHISM APPLYING TRIPLE STRAND DNA
 FORMATION TECHNIQUE
 INVENTOR(S): YASUSHI SHIGEMORI ET AL.
 APPLN. SERIAL NO.: 09/989,526 SHEET 1 OF 14

17691 U.S. PTO

FIG. 1A



BEST AVAILABLE COPY

FIG. 1B

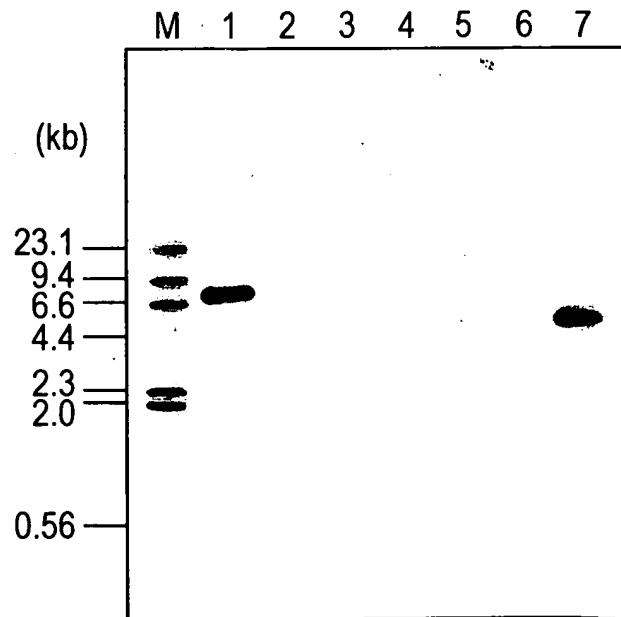
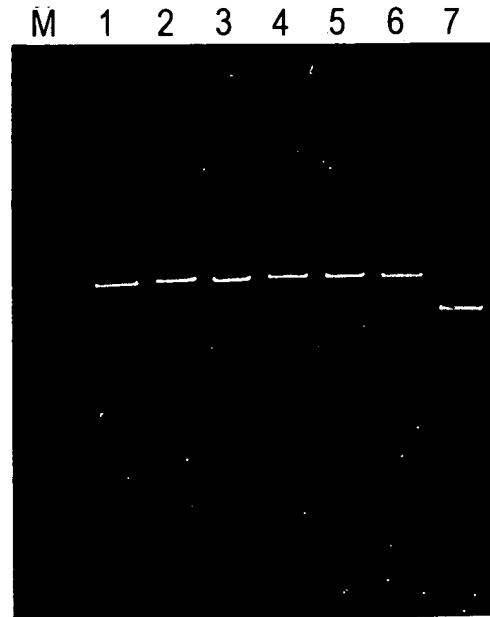


FIG. 1C



APPLN. FILING DATE: NOVEMBER 21, 2001
 TITLE: METHOD FOR DETECTING DNA
 POLYMORPHISM APPLYING TRIPLE STRAND DNA
 FORMATION TECHNIQUE
 INVENTOR(S): YASUSHI SHIGEMORI ET AL.
 APPLN. SERIAL NO.: 09/989,526 SHEET 2 OF 14



17691 U.S. PTO
 0929604

FIG. 2A

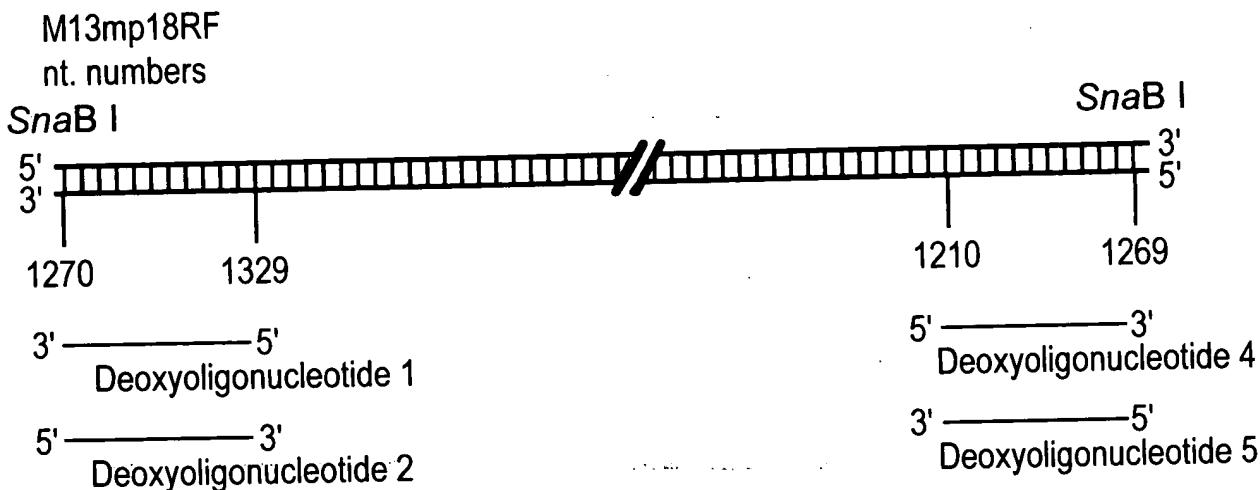


FIG. 2B

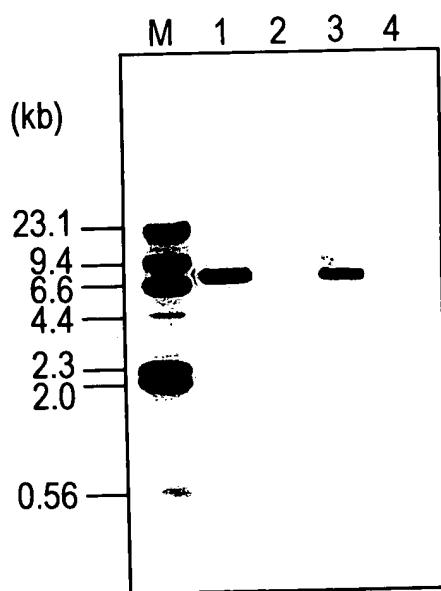
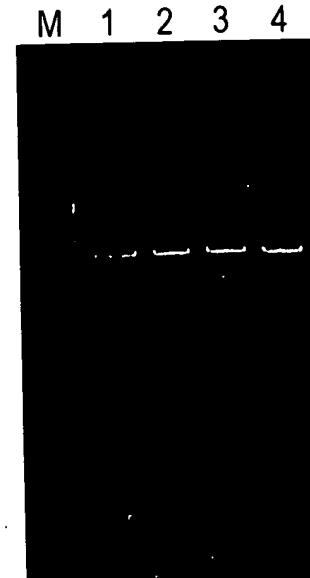


FIG. 2C



BEST AVAILABLE COPY

APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL NO.: 09/989,526 SHEET 3 OF 14

17691 U.S.PTO
092904

FIG. 3A

M13mp18RF

nt. numbers

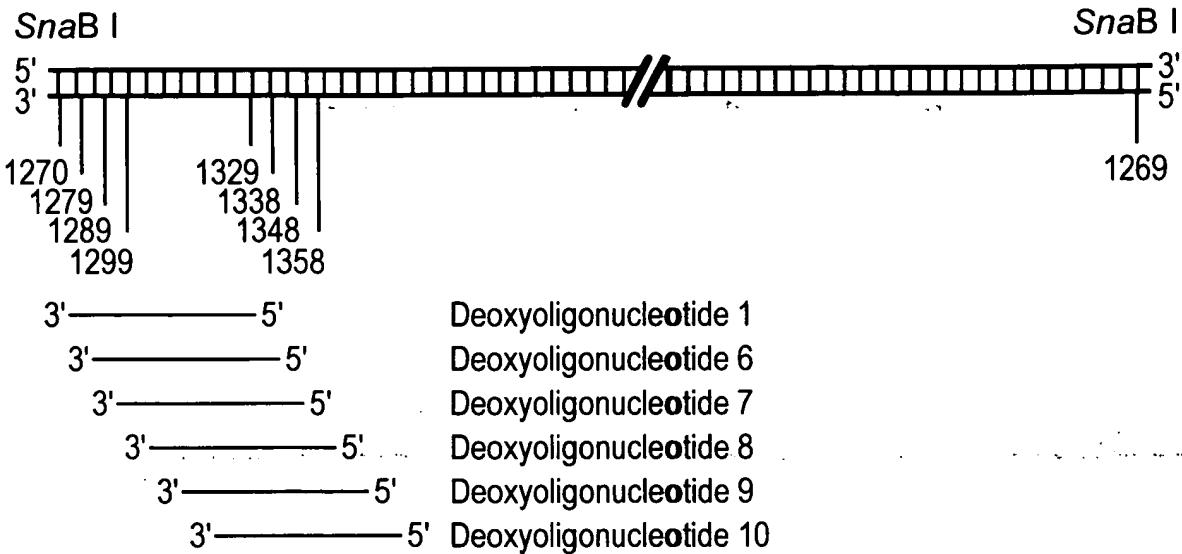


FIG. 3B

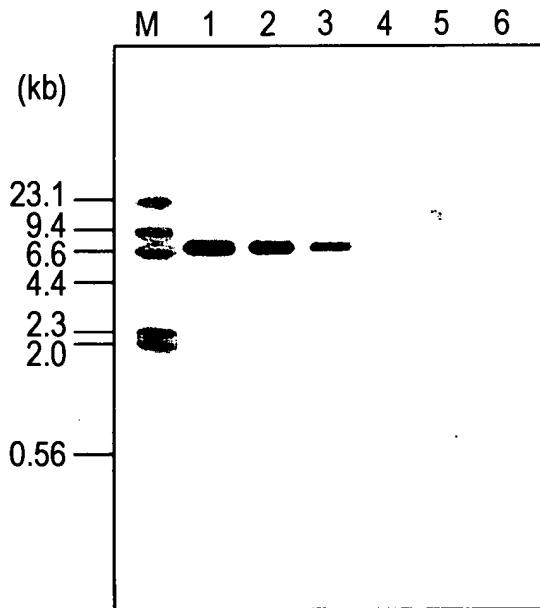
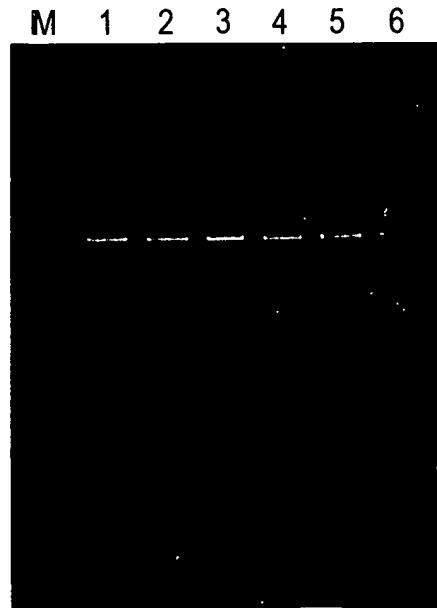


FIG. 3C



BEST AVAILABLE COPY

APPLN. FILING DATE: NOVEMBER 21, 2001
 TITLE: METHOD FOR DETECTING DNA
 POLYMORPHISM APPLYING TRIPLE STRAND DNA
 FORMATION TECHNIQUE
 INVENTOR(S): YASUSHI SHIGEMORI ET AL.
 APPLN. SERIAL NO.: 09/989,526 SHEET 4 OF 14

17691 U.S. PTO
 092904

FIG. 4A

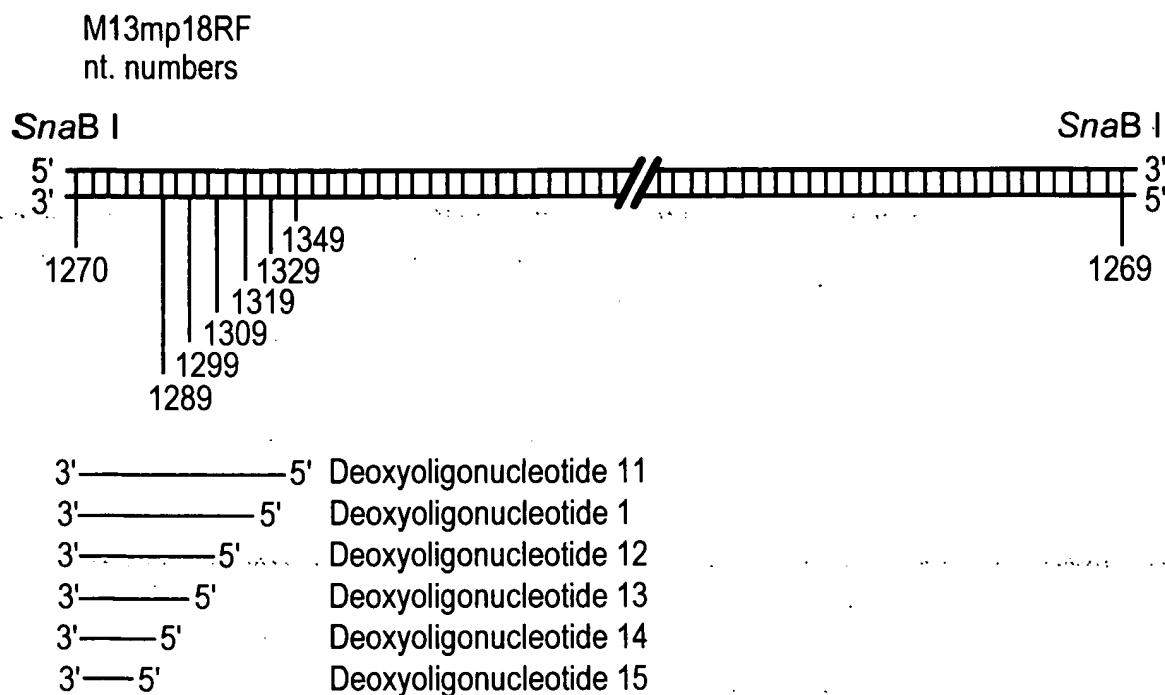


FIG. 4B

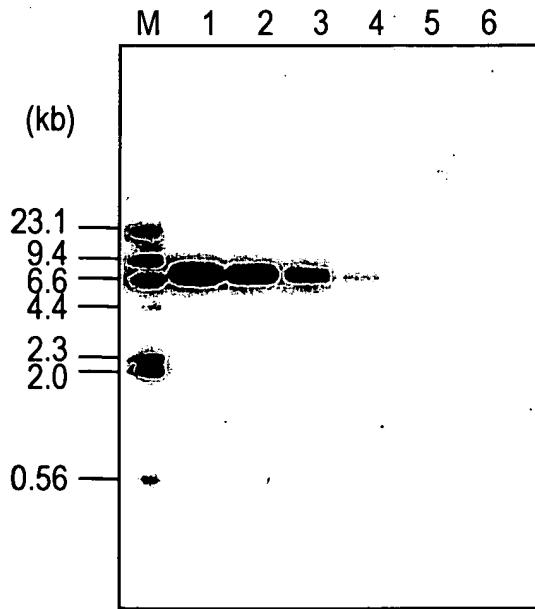


FIG. 4C

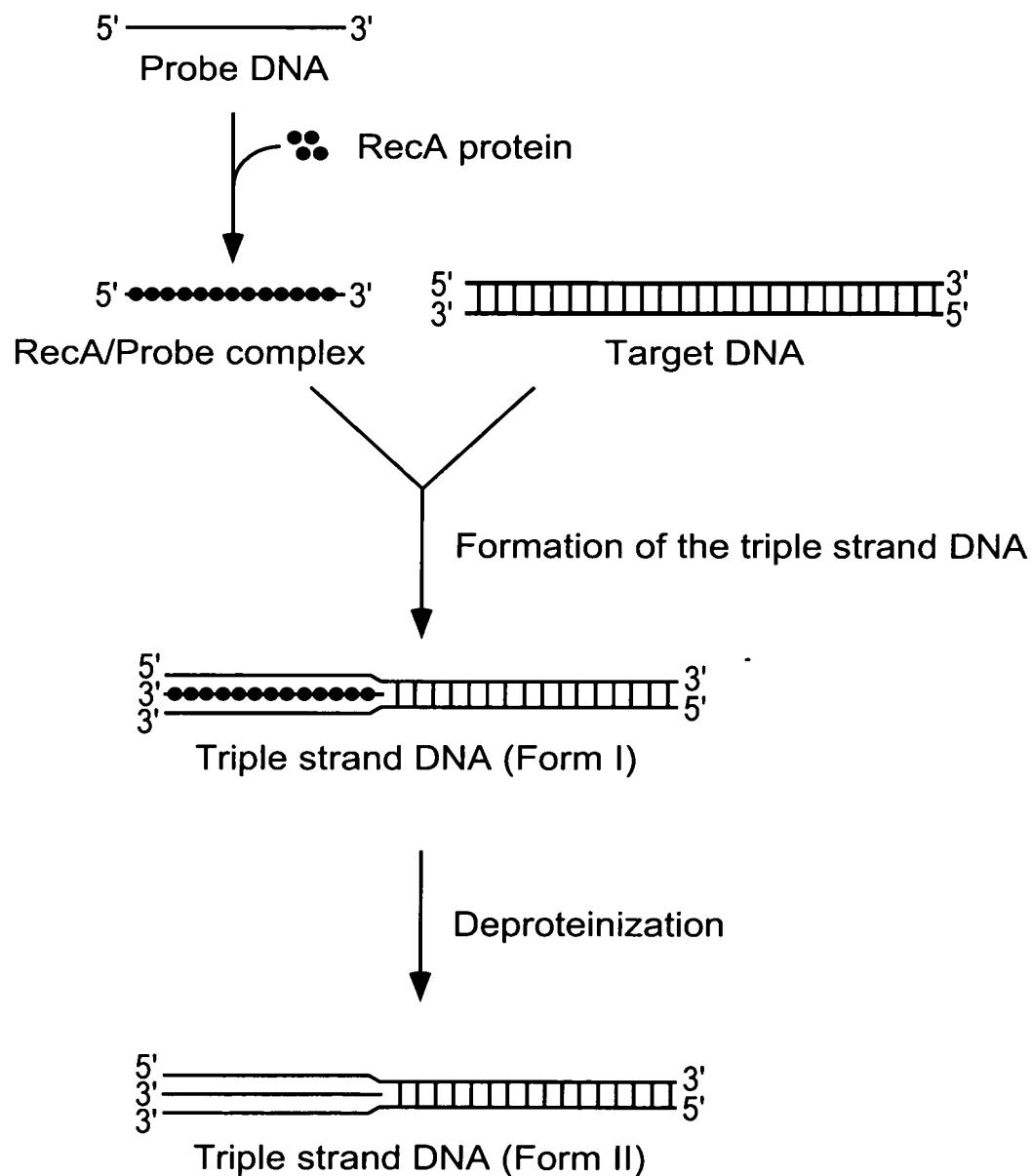


BEST AVAILABLE COPY

APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL NO.: 09/989,526 SHEET 5 OF 14



FIG. 5



APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL NO.: 09/989,526 SHEET 6 OF 14

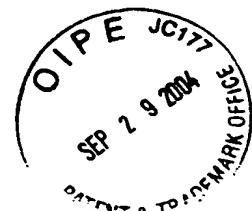
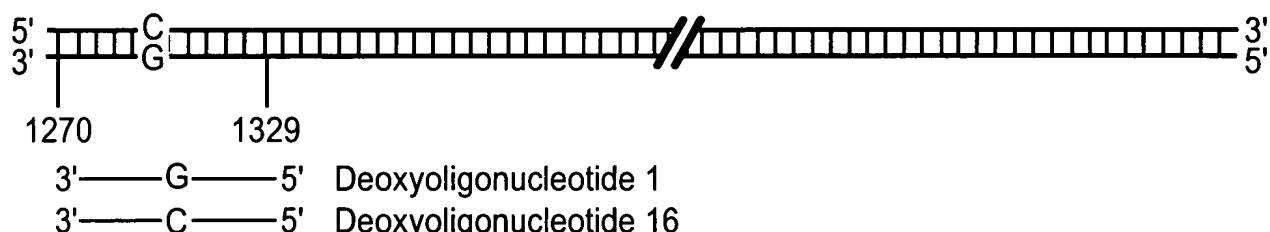


FIG. 6A

M13mp18RF
nt. numbers

SnaB I



SnaB I

APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL No.: 09/989,526 SHEET 7 OF 14

17691 US PTO
092904

FIG. 6B

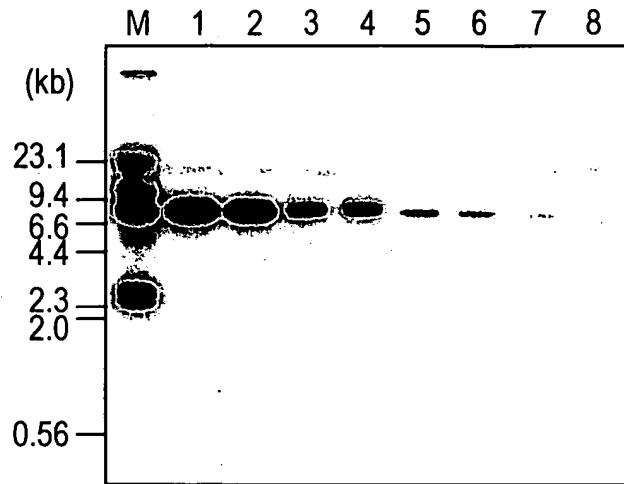
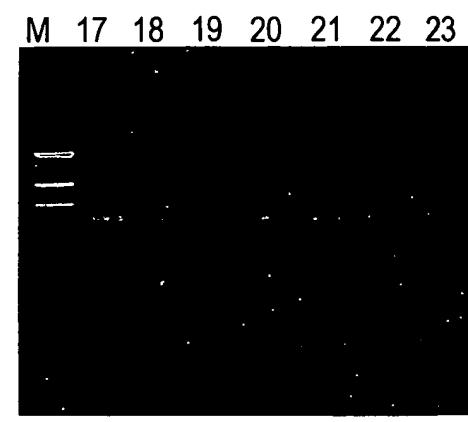
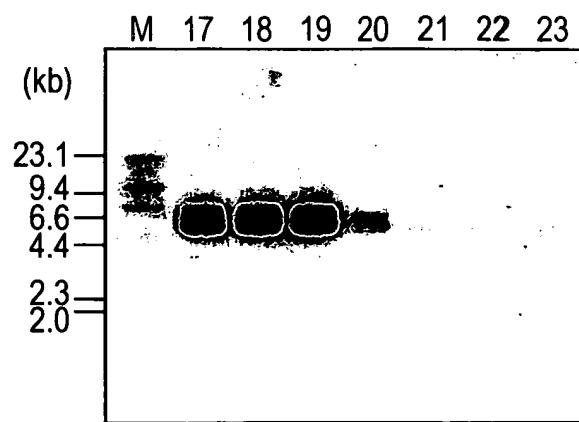
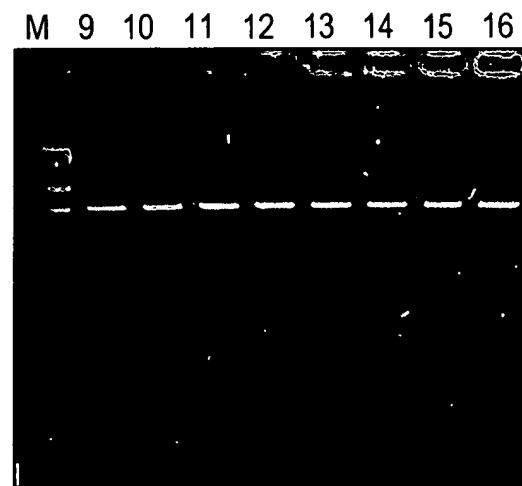
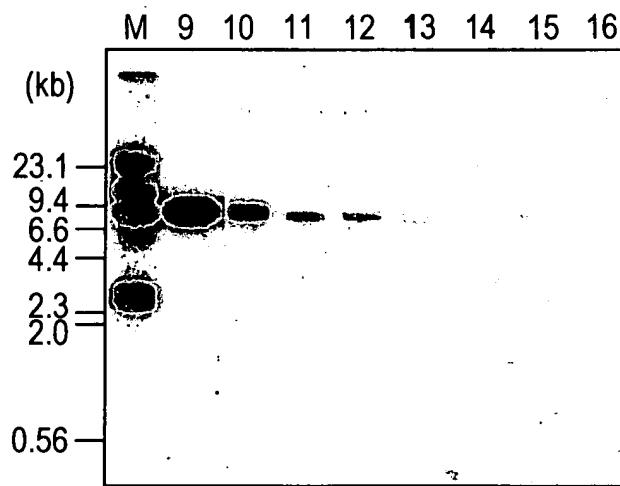
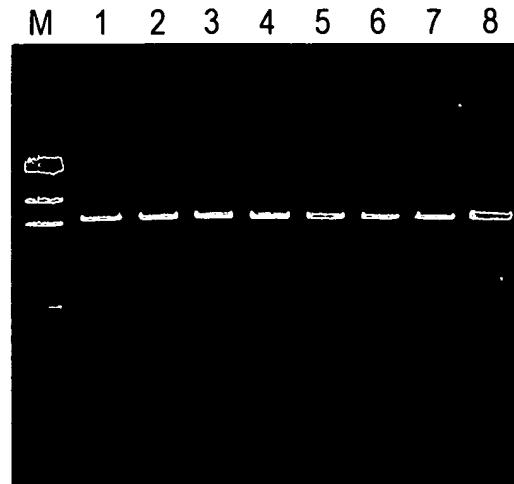


FIG. 6C



BEST AVAILABLE COPY

APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL NO.: 09/989,526 SHEET 8 OF 14

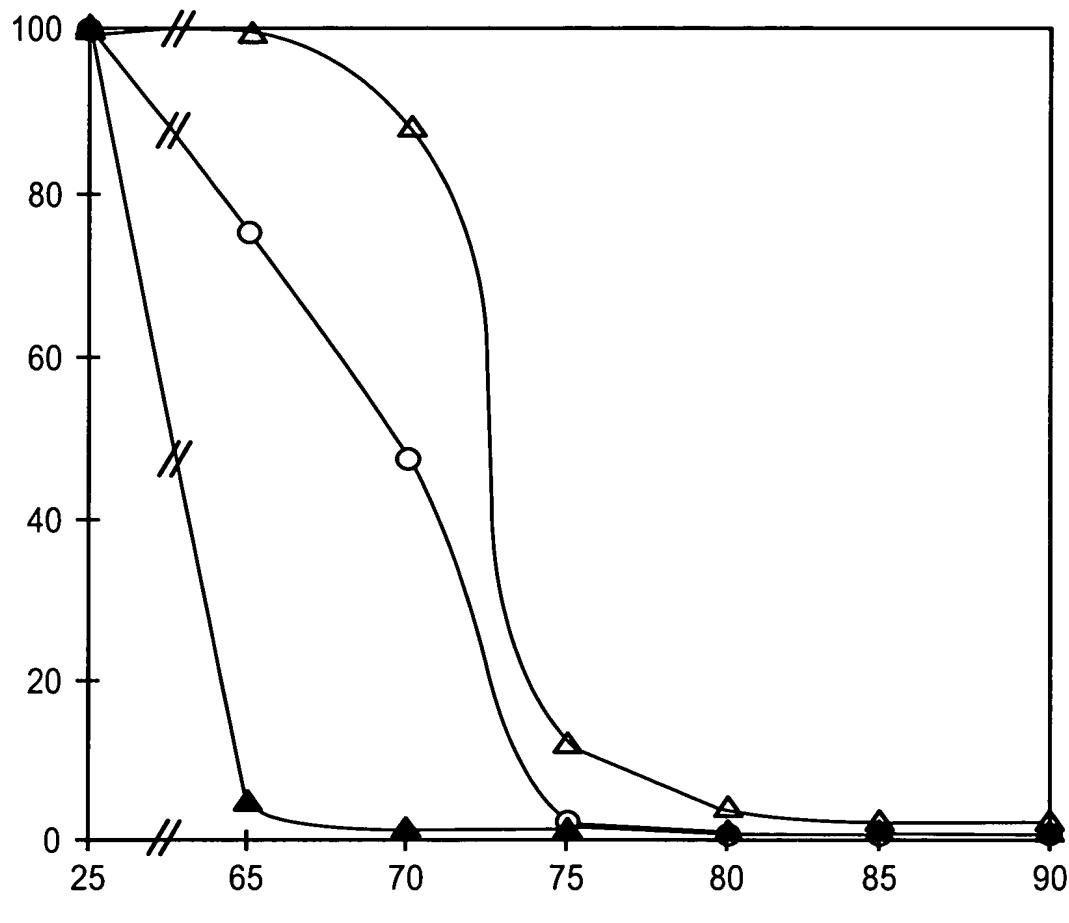


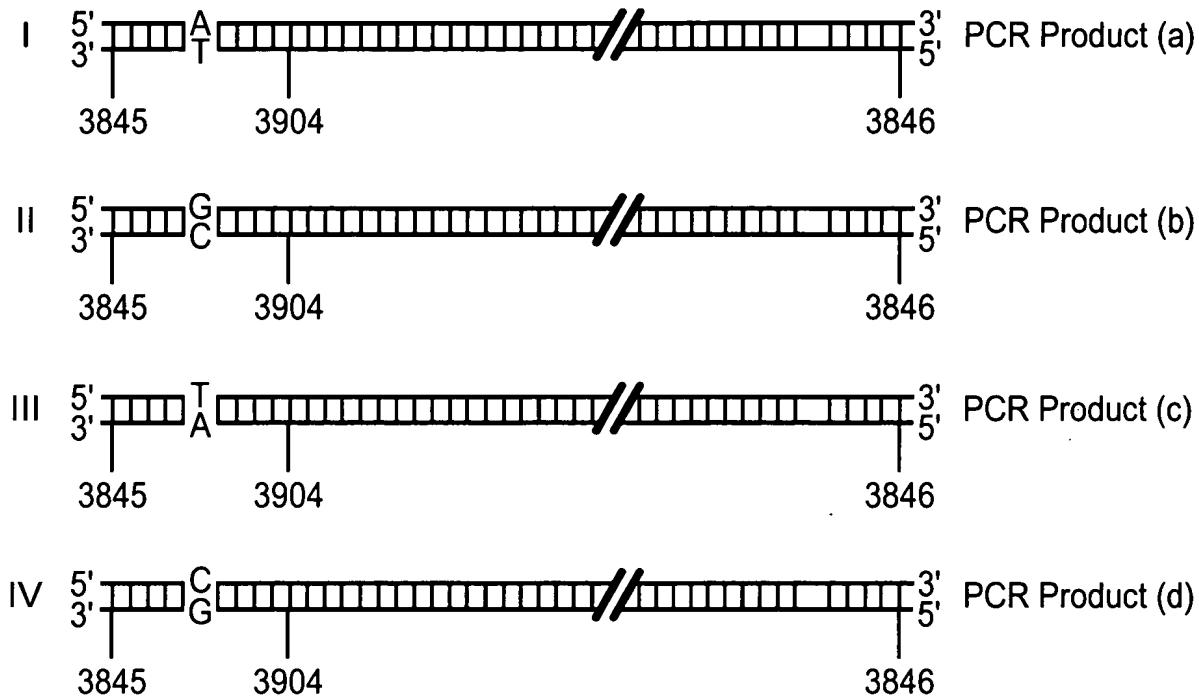
FIG. 7

APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL NO.: 09/989,526 SHEET 9 OF 14



FIG. 8

pBR322
nt. numbers



3' — G — 5' Deoxyoligonucleotide 17

3' — A — 5' Deoxyoligonucleotide 18

3' — T — 5' Deoxyoligonucleotide 3

3' — C — 5' Deoxyoligonucleotide 19

APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL NO.: 09/989,526 SHEET 10 OF 14

17691 U.S. PTO
092604

FIG. 9A

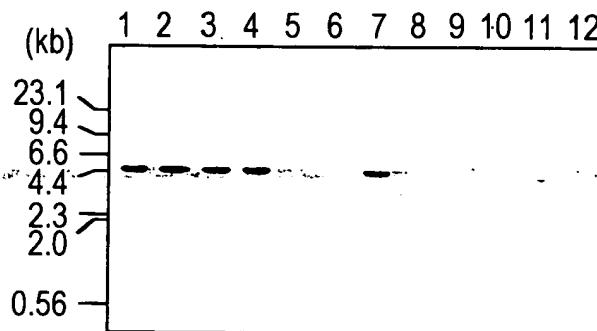
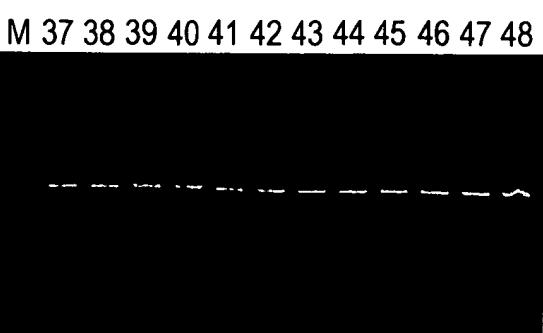
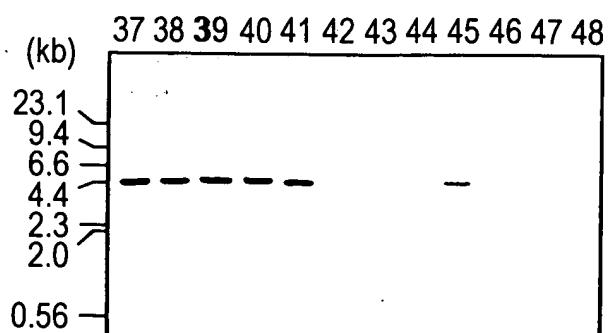
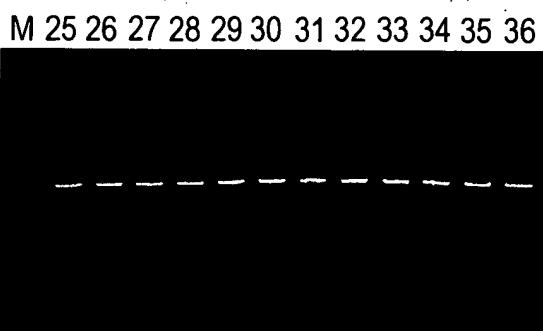
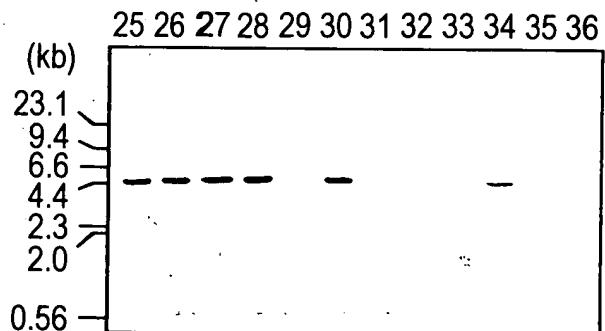
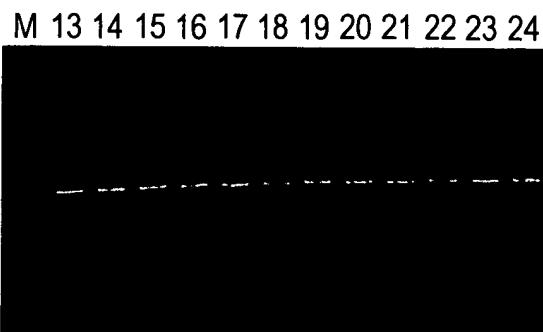
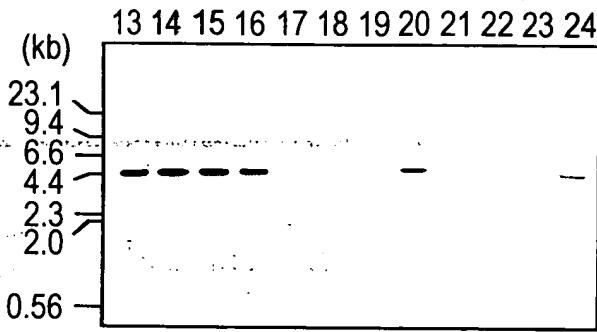
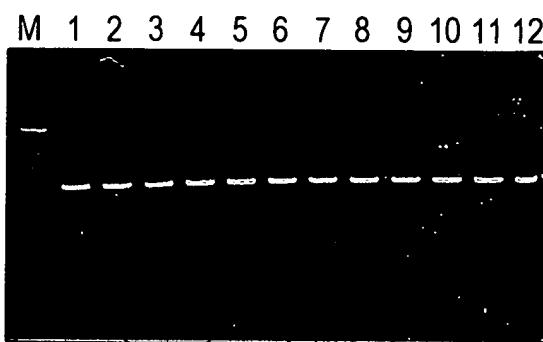


FIG. 9B



BEST AVAILABLE COPY

APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL NO.: 09/989,526 SHEET 11 OF 14

17691 U.S. PTO

FIG. 10A

M13 mp18RF
nt. numbers

SnaB 1

5'
3'

SnaB I

3'	5'	Deoxyoligonucleotide 20
3'-G	5'	Deoxyoligonucleotide 21
3'-G	5'	Deoxyoligonucleotide 22
3'-G	5'	Deoxyoligonucleotide 23
3'-G	5'	Deoxyoligonucleotide 24
3'-G	5'	Deoxyoligonucleotide 25
3'-G	5'	Deoxyoligonucleotide 26
3'-G	5'	Deoxyoligonucleotide 27
3'-G	5'	Deoxyoligonucleotide 28
3'	G5'	Deoxyoligonucleotide 29

FIG. 10B

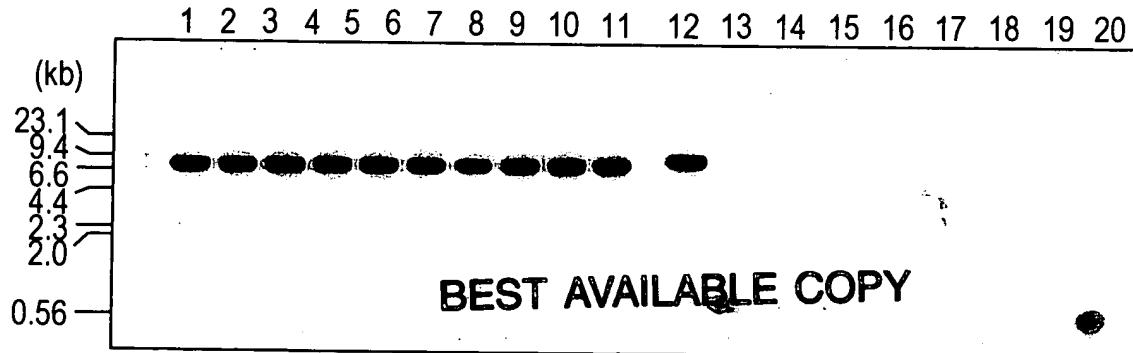
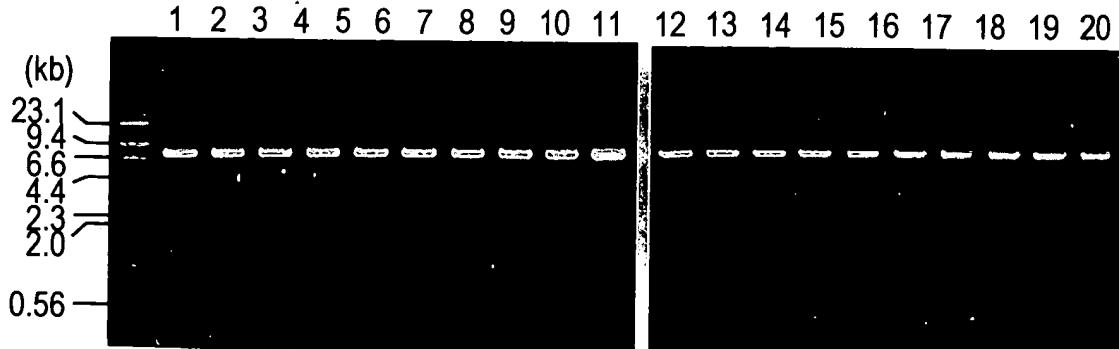
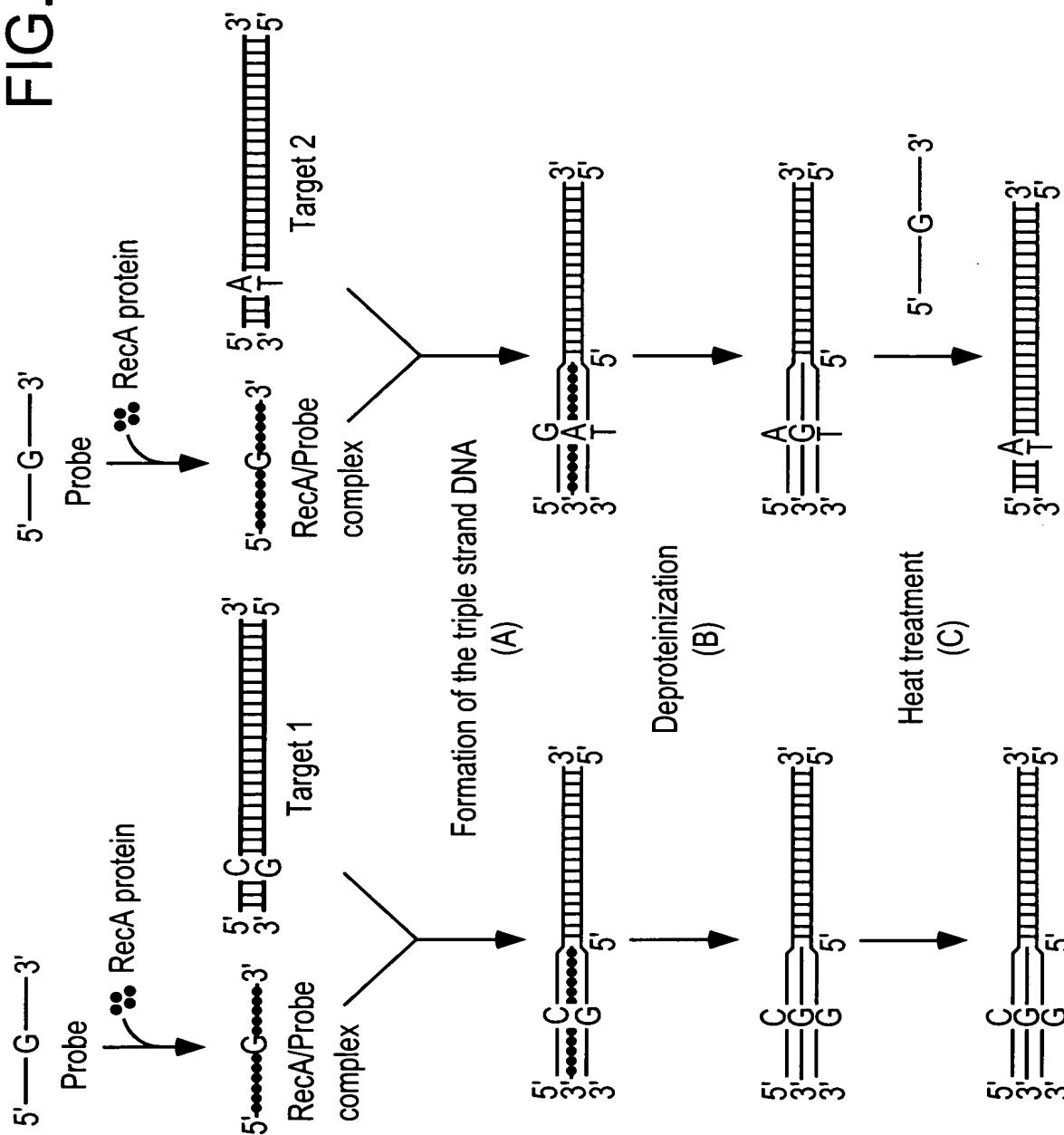


FIG. 10C



APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL NO.: 09/989,526 SHEET 12 OF 14

FIG. 1



APPLN. FILING DATE: NOVEMBER 21, 2001
 TITLE: METHOD FOR DETECTING DNA
 POLYMORPHISM APPLYING TRIPLE STRAND DNA
 FORMATION TECHNIQUE
 INVENTOR(S): YASUSHI SHIGEMORI ET AL.
 APPLN. SERIAL No.: 09/989,526 SHEET 13 OF 14

17601 US PTO
 092904

FIG. 12A

M13 mp18RF
 nt. numbers

SnaB I



- 3' _____ 5' Deoxyoligonucleotide 1
- 3' -C_____ 5' Deoxyoligonucleotide 30
- 3' -C_____ 5' Deoxyoligonucleotide 31
- 3' -C_____ 5' Deoxyoligonucleotide 32
- 3' -C_____ 5' Deoxyoligonucleotide 16
- 3' -C_____ 5' Deoxyoligonucleotide 33
- 3' -C_____ 5' Deoxyoligonucleotide 34
- 3' -C_____ 5' Deoxyoligonucleotide 35

SnaB I

BEST AVAILABLE COPY

FIG. 12B

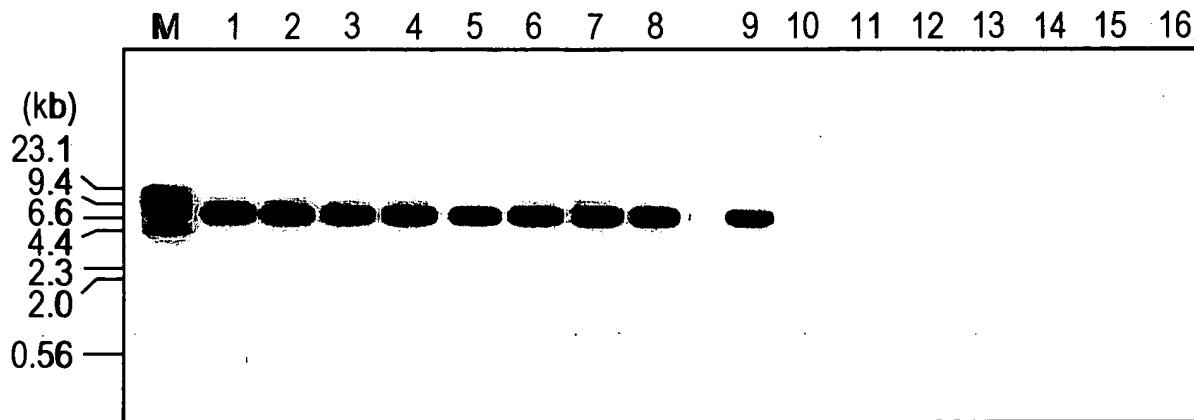
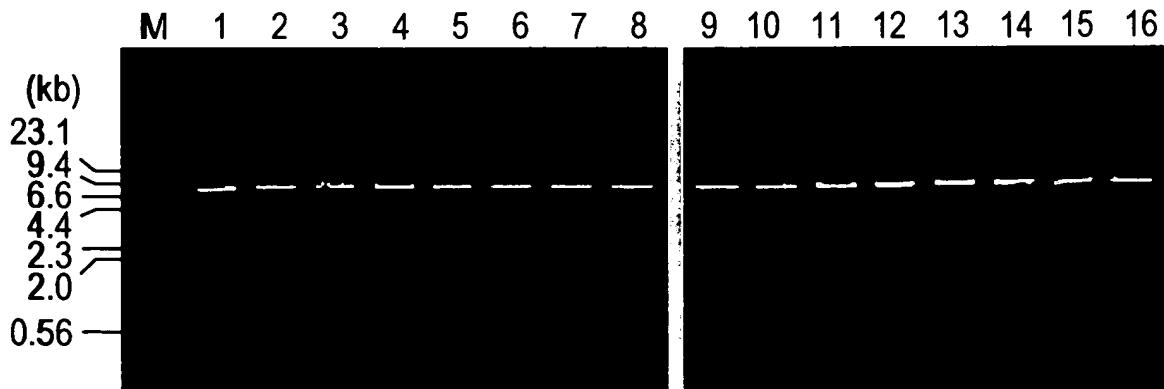


FIG. 12C



APPLN. FILING DATE: NOVEMBER 21, 2001
TITLE: METHOD FOR DETECTING DNA
POLYMORPHISM APPLYING TRIPLE STRAND DNA
FORMATION TECHNIQUE
INVENTOR(S): YASUSHI SHIGEMORI ET AL.
APPLN. SERIAL NO.: 09/989,526 SHEET 14 OF 14



M13mp18RF
nt. numbers

SnaB I

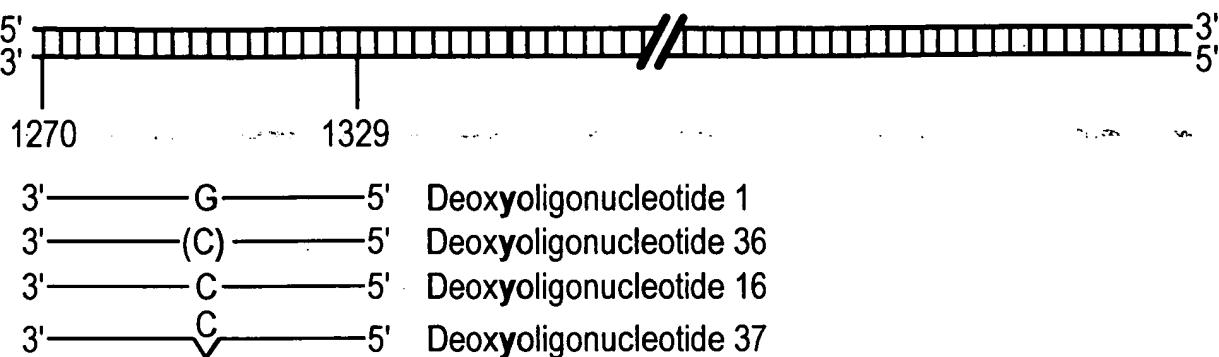
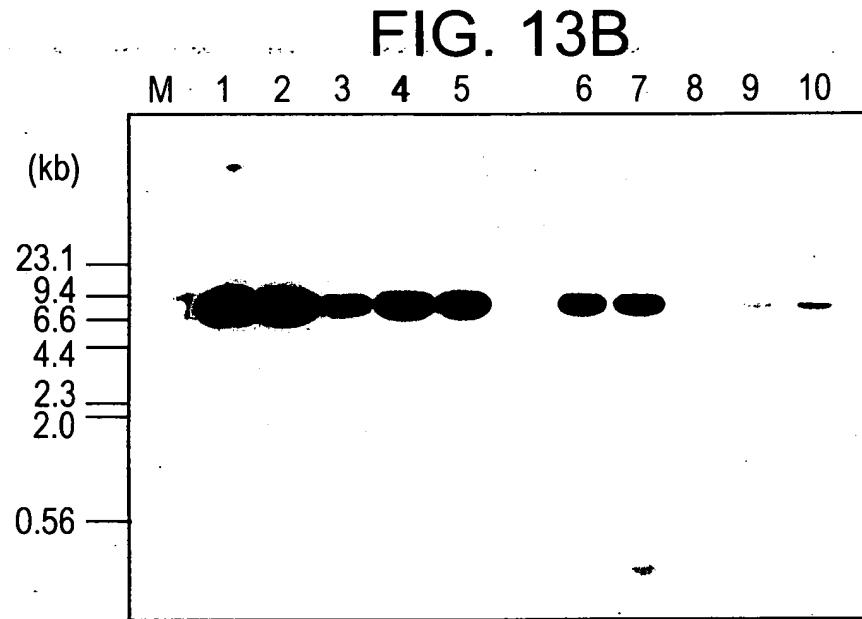


FIG. 13A



BEST AVAILABLE

FIG. 13C

